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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/528,991		03/24/2005	Susumu Murata	123216	6386
25944	7590	04/04/2006		EXAMINER	
OLIFF & I		GE, PLC	MARINI, MATTHEW G		
	P.O. BOX 19928 ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER
,	,			2854	
				DATE MAILED: 04/04/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

·	Application No.	Applicant(s)	· +-
;	10/528,991	MURATA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Matthew G. Marini	2854	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tin rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communica (D) (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 24 Ma	arch 2005.		
· · · · · · · · · · · · · · · · · · ·	action is non-final.		
3) Since this application is in condition for allowan	ce except for formal matters, pro	secution as to the merits	s is
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>15-28</u> is/are pending in the application	l.		
. 4a) Of the above claim(s) is/are withdraw	vn from consideration.	•	
5) Claim(s) is/are allowed.		٠.,	
6)⊠ Claim(s) <u>15-28</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	election requirement.		
Application Papers			
9)⊠ The specification is objected to by the Examiner	•	a a	
10)⊠ The drawing(s) filed on 24 March 2005 is/are: a	a)⊠ accepted or b)⊡ objected to	o by the Examiner.	•
Applicant may not request that any objection to the o	frawing(s) be held in abeyance. See	e 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Example 11.		•	
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).	
1.⊠ Certified copies of the priority documents	have been received.		
2. Certified copies of the priority documents		on No	
3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage	
application from the International Bureau	(PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list of	of the certified copies not receive	ed.	
	•		
			. 14
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summary		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P	ate	
Paper No(s)/Mail Date 6/23/05.	6) Other:	,,	

Art Unit: 2854

DETAILED ACTION

Specification

The disclosure is objected to because of the following informalities:

It appears on page 4, lines 19-20 "unshown main control unit" should read --main control unit (not shown)--.

It appears on page 6, line 11 "unshown bias spring" should read –bias spring (not shown)--.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 15-20, 22, and 24-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Furuya (2002/0094222).

As to Claim 15, Furuya teaches in Fig. 1 a tape-like object feeding device, 200, for feeding a tape-like object, 210, comprising: a feeding mechanism, 220, that feeds, paragraph 94, line 7-11, the tape-like object, 210, toward an outlet, 110; a cutting mechanism, 300 and 400, that cuts the tape-like object, 210, fed by the feeding mechanism, 220; an ejection roller, 500, placed on the outlet side of the cutting mechanisms, 400and 300, for ejecting the tape-like object, 210, cut off by the cutting mechanism, 300, through the outlet, 110, by revolving while making contact, paragraph 164 lines 1-10, with the tape-like object, 210; and a controller, of Fig. 9 item 600, which controls, paragraph 180, the revolving timing of the ejection roller, 500, in the ejection of

Art Unit: 2854

the tape-like object depending on a feeding length, paragraph 184, of the tape-like object, by the feeding mechanism, 220.

As to Claim 16, Furuya teaches a tape-like object-feeding device in Fig. 1 item 200 where in Fig. 4 a driver, 145, for driving the feeding mechanism, 220, and a driver, 330, for driving the ejection roller, 500, are provided separately and independently, paragraph 179, lines 8-14.

As to Claim 17, Furuya teaches in Fig. 1 a label tape printing device, 1, for printing on a label tape, paragraph 90 lines 6-7, as the tape-like object 210, comprising: the tape-like object feeding device, 200; and an image formation unit placed, 150, on an upstream side of the cutting mechanism, 300, for forming an image on the label tape, 210.

As to Claim 18. Furuya teaches in Fig. 1, a tape-like object feeding device, 200, for feeding a tape-like object, 210, comprising: a feeding mechanism, 220, that feeds the tape-like object toward an outlet, 110; a cutting mechanism, 300, that cuts the tapelike object, 210, fed by the feeding mechanism, 220; an ejection roller, 500, placed on a downstream side of the cutting mechanism, 300, in a feeding path, 18, of the tape-like object, 210, for ejecting the tape-like object cut off by the cutting mechanism by revolving while making contact with the tape-like object, paragraph 164 lines 1-10; and a controller, of Fig. 9 item 600, which executes driving control of the ejection roller, 500, in the ejection of the tape-like object, 210, which has been cut off, paragraph 184, depending on the feeding length of the tape-like object by the feeding mechanism, 220, at a point when the tape-like object, 210, is cut off by the cutting mechanism, 300.

Art Unit: 2854

As to Claim 19, Furuya teaches a tape-like object-feeding device, 220, where the type of the tape-like object, 210, includes a laminate structure, paragraph 2 lines 3-6, of the tape-like object, 210.

As to Claim 20, Furuya teaches a tape-like object feeding device, 200, where the controller, 600 of Fig. 9, changes control, paragraph 179 lines 8-14, regarding revolving timing, paragraph 180, of the ejection roller, Fig. 1 item 500, depending on the feeding length of the tape-like object, 210, by the feeding mechanism, 220, at the point when the tape-like object is cut off by the cutting mechanism, 300.

As to Claim 22, Furuya teaches a tape-like object feeding device, 200, where the controller, Fig. 9 item 600 includes: a first driver, 330, that drives the ejection roller, 500; and a second driver, 145, that drives the feeding mechanism, 220, wherein the ejection roller, 500, and the feeding mechanism, 145, are controlled independently by driving the first and second drivers separately, paragraph 179 lines 8-14.

As to Claim 24, Furuya teaches a tape-like object feeding device, 200, where the controller of Fig. 9 item 600 includes a calculating system, paragraph 178, which calculates the feeding length of the tape-like object, 210 of Fig. 1, by the feeding mechanism, 220, at the point when the tape-like object is cut off by the cutting mechanism, 300, based on information on contents of printing on the tape-like object, lines 15-20 of paragraph 178.

As to Claim 25, Furuya teaches a tape-like object-feeding device, 200 of Fig. 1, further comprising a sensor, 465, for detecting the feeding length of the tape-like object,

Art Unit: 2854

210, by the feeding mechanism, 220, at the point when the tape-like object is cut off by the cutting mechanisms, either 400 or 300 (paragraph 187).

As to Claim 26, Furuya teaches a tape-like object feeding device, 200 of Fig. 1, where the tape-like object is a label tape, paragraph 90 lines 3-7.

As to Claim 27, Furuya teaches a printing device, of Fig. 1 item 1 comprising: a feeding mechanism, 220, that feeds a tape-like object, 210, toward an outlet, 110; a cutting mechanism, 300 or 400, that cuts the tape-like object, 210, fed by the feeding mechanism, 220; an ejection roller, 500, placed on a downstream side of the cutting mechanism, 300 or 400, in a feeding path, 18, of the tape-like object, 210, for ejecting the tape-like object cut off by the cutting mechanism, 300, by revolving while making contact with the tape-like object, paragraph 164 lines 1-10; an image formation unit, 150, placed on an upstream side of the cutting mechanism, either 300 or 400, in the feeding path, 18, for forming an image on the tape-like object, 210; and a controller, as seen in Fig. 9 item 600, which executes driving control of the ejection roller, 500, in the ejection, paragraph 164, of the tape-like object, 210, which has been cut off, depending on the feeding length, paragraph 184, of the tape-like object, 210, by the feeding mechanism, 220, at a point when the tape-like object is cut off by the cutting mechanism, 300.

As to Claim 28, Furuya teaches a printing device, Fig. 1 item 1, where the controller, of Fig. 9 item 600, executes the driving control of the ejection roller, 500 of Fig. 1, in the ejection of the tape-like object which has been cut off, paragraph 180 lines

Art Unit: 2854

4-9, further considering the information on size of the image generated by the image formation unit, 150, as seen in paragraph 178 lines 7-19.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Furuya (2002/0094222) in view of Kano (5,855,441).

Furuya teaches all that is claimed, as discussed in the above rejection of Claim 18, except a tape-like object-feeding device further comprising a detector that detects the type of the tape-like object.

Kano teaches in Col. 4, lines 4-6, a cassette identification sensor, which identifies the type of cassette attached. It would have been obvious to one of ordinary skill in the art at the time of invention to incorporate the sensor of Kano into Furuya because it would allow the ability to store different print formats depending on the type of cassette used without user input, Fig. 2.

Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Furuya (2002/0094222) in view of Nakagawa (5,769,411).

Furuya teaches all that is claimed, as discussed in the above rejection of Claim 18, except a common driving system which is used for driving the ejection roller, 500, and the feeding mechanism, 220; and a power connection/disconnection mechanism for

Art Unit: 2854

switching connection/disconnection of power transmission from the common driving system to the ejection roller, 500, or the feeding mechanism, 220, wherein they are controlled independently by controlling the power connection/disconnection mechanism.

Nakagawa teaches in Fig. 9, a common driving system, 92, like the motors used in Furuya, which is used for to separately drive elements 40 and 41, Col. 8 lines 59-62; and a power connection/disconnection mechanism, clutch 103, for switching connection/disconnection of power transmission from the common driving system, 92, to elements 40 and 41, where they are controlled independently by controlling the power connection/disconnection mechanism, 103. It would have been obvious to one of ordinary skill in the art at the time of invention to replace the drive motor 330 of Furuya with the motor, 92, and add the clutch, 103, of Nawagawa to separately operated elements 500 and 220 of Furuya because it would eliminate the need for the additional motor reducing overall cost and minimizing the amount of power consumed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew G. Marini whose telephone number is (571)-272-2676. The examiner can normally be reached on Monday-Friday 8:00 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Hirshfeld can be reached on (571)-272-2168. The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300.

Art Unit: 2854

Page 8

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Matthew Marini

3/29/06

REN YAN PRIMARY EXAMINER